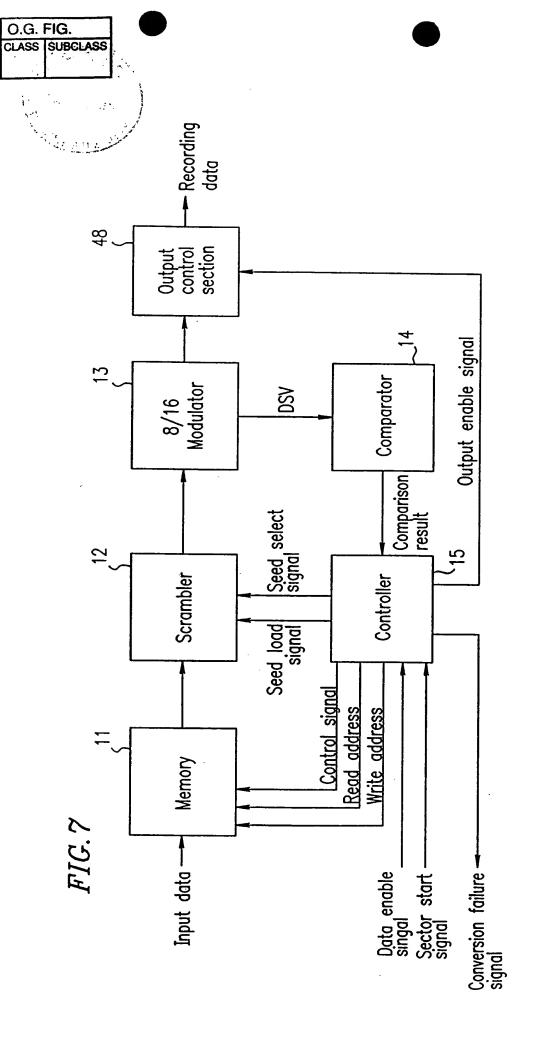


| APPROVED O.G. FIG. BY CLASS SUBCLASS DRAFTSMAN |   |   |
|--|---|---|
|  | First scrambler  Second scrambler  8  44  8  8  8  8  9  10  10  10  10  10  10  10  10  10 | 1 45<br>47<br>8 Scrambled data                              |
| \<br>\<br>\<br>\<br>\                          | Bit clock— Word clock— Reset signal—  | Gate signal<br>on a frame basis <sup>—</sup><br>Input data— |

| APPROVED O.G BY CLAS DRAFTSMAN | S SUBCLASS   |  |   |   |  |
|--------------------------------|--|--|---|---|--|
| FIG.6                          | Sector Start Sector Start Sector Start Sector Start Sector Start Sector Start signal S | Dota Enable Ifrom previous Inches Inc | state | Frome signal one sector of moin data not be sector of moin data not be sector signal osserted and current Data Enable or signal osserted and read current Data Enable | from memory, Frame signal negated store next sector of signal frame signal frame signal asserted 512 511 asserted in DSV diverging fram Reading one sector in main data non-completed signal asserted in SS diverging fram signal asserted in DSV diverging fram in the sector in Dota Enable signal asserted in DSV diverging fram in the sector in Dota Enable signal asserted in DSV diverging fram in the sector in Dota Enable signal asserted in DSV diverging fram in the sector in the sector in DSV diverging fram in the sector in t |



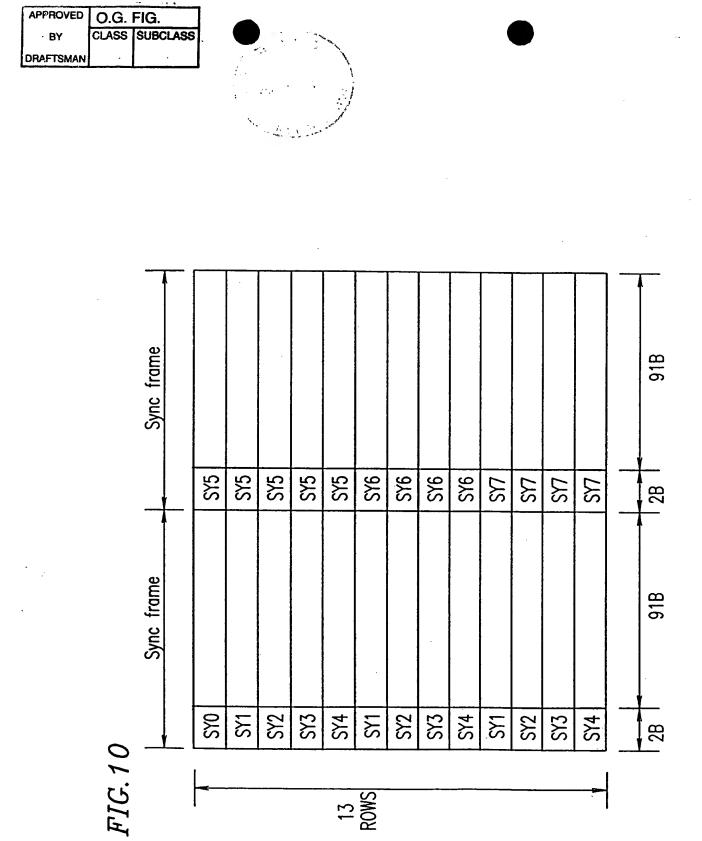
APPROVED BY DRAFTSMAN

| APPROVED  | O.G.  | FIG.     |  |
|-----------|-------|----------|--|
| BY        | CLASS | SUBCLASS |  |
| DRAFTSMAN |       |          |  |
|           |       |          |  |
|           |       |          |  |
|           |       |          | The same of the sa |
|           |       |          |  |

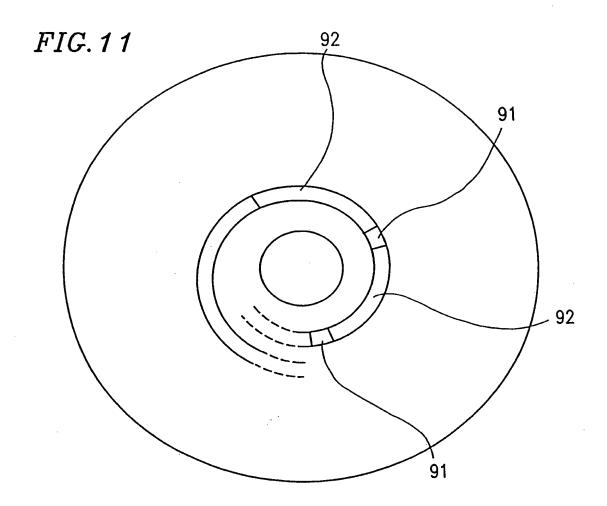
EDC <del>4</del>B MAIN DATA(Do  $\sim D_{159}$ ) MAIN DATA(D1708 ~ D1879) MAIN DATA( $D_{1880} \sim D_{2047}$ ) MAIN DATA(D160~D331) SCL 89 田 28 DATA ID FIG.812 ROWS

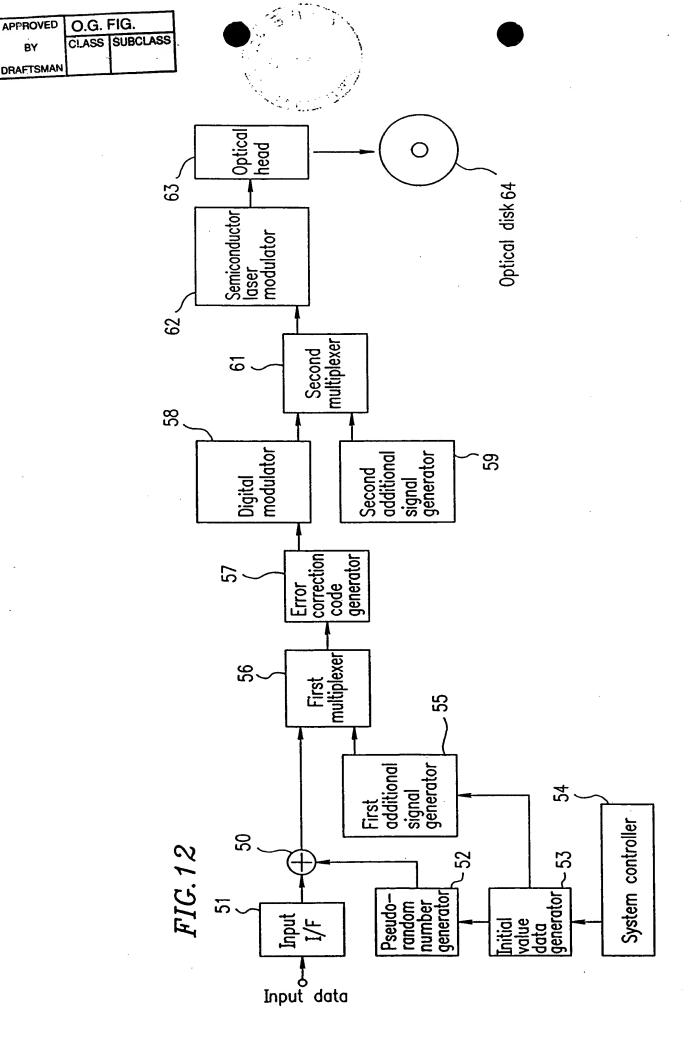
| MATERIAL BEST | U.G. 1 |          |   |
|---------------|--------|----------|---|
| BY            | CLASS  | SUBCLASS |   |
| DRAFTSMAN     |        |          | 1 |
|               |        | •        |   |

| م مرد م |                           | E E               |       |
|---------|---------------------------|-------------------|-------|
|         |                           | BUFFER            |       |
|         |                           | GUARD             |       |
|         | (378)                     | PA<br>section     |       |
|         | RECORDING section (2567B) | DATA              | 2418B |
|         | ING sect                  | PS<br>section     |       |
|         | RECORD                    | VF0<br>section    |       |
|         |                           | GUARD             |       |
|         |                           | GAP<br>section    |       |
|         |                           | MIRROR<br>section | 28    |
| FIG.9   |                           | HEADER<br>section | 1288  |



| APPROVED  | 0.G.  | FIG.     |     |
|-----------|-------|----------|-----|
| BY        | CLASS | SUBCLASS | 4.  |
| DRAFTSMAN |       |          | 112 |
|           |       |          | `\  |
|           |       |          |     |
|           |       |          |     |





BY

| APPROVED  |          |          |
|-----------|----------|----------|
| BY        | CLASS    | SUBCLASS |
| DRAFTSMAN | <u>·</u> |          |

2 <u>~</u> ▲ R3 ▲ R2 **₹** 1 RO 1 RO 1 RS R14 - R13 - R12 - R11 - R10 - R9 - R8

FIG. 13

| APP-ROVED | O.G. I | FIG.     |
|-----------|--------|----------|
| BY        | CLASS  | SUBCLASS |
| DRAFTSMAN |        |          |

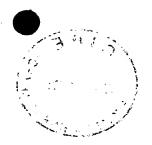


FIG. 14

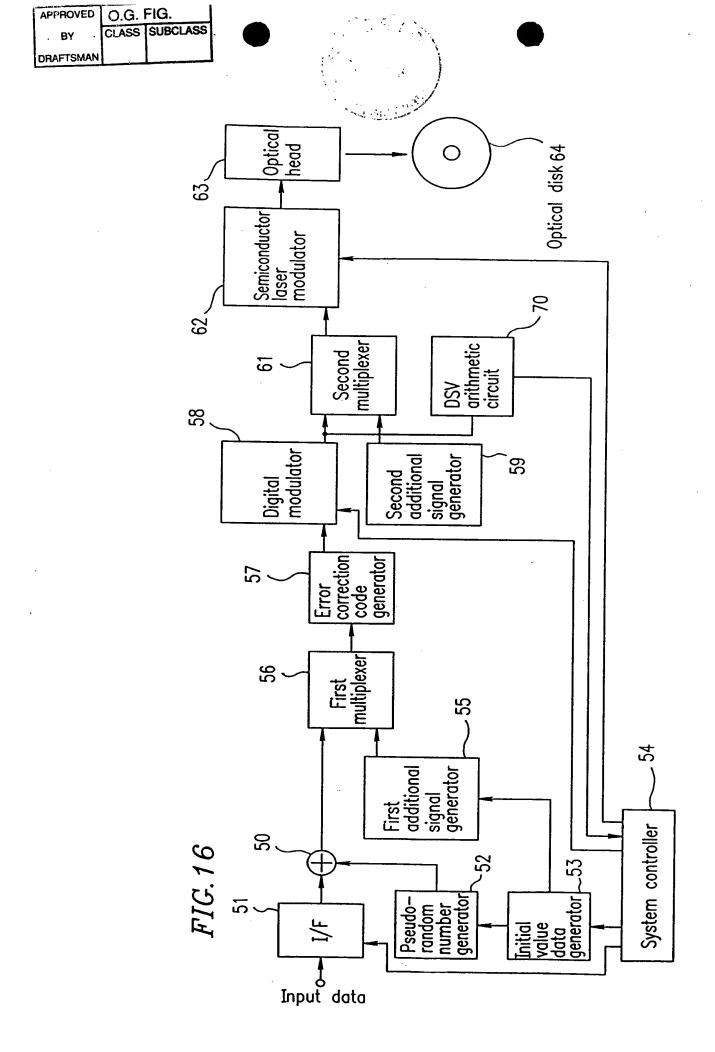
| Bit string | Initial value |
|------------|---------------|
| 0h         | 0001h         |
| 1          | 5500          |
| 2          | 0002          |
| 3          | 2A00          |
| 4          | 0004          |
| 5          | 5400          |
| 6          | 0008          |
| 7          | 2800          |
| 8          | 0010          |
| 9          | 5000          |
| A          | 0020          |
| В          | 2001          |
| C          | 0040          |
| D          | 4002          |
| Ε          | 0800          |
| F          | 0005          |

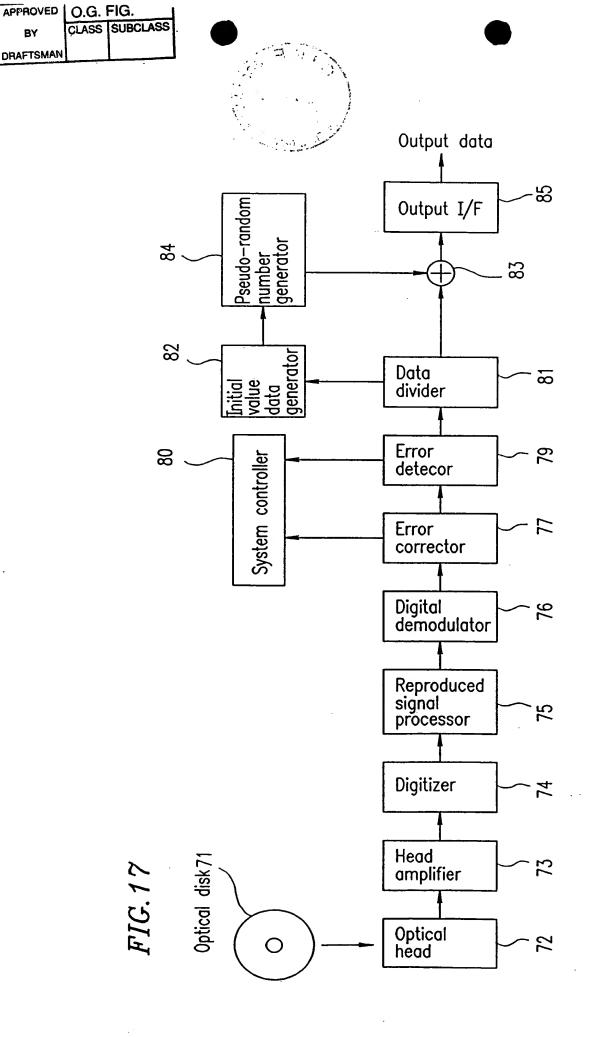
APPROVED O.G. FIG.
BY CLASS SUBCLASS
DRAFTSMAN



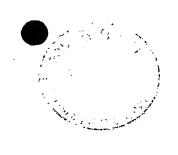
|  | Г       |      | 1    | Ι    | <del></del> | F    |      | ı —  |      |      |      |      | 1    | 1    |      | _     |
|--|---------|------|------|------|-------------|------|------|------|------|------|------|------|------|------|------|-------|
| Rewrite repetition times 15  | 0031h   | 2000 | 0032 | 1600 | 0034        | 2800 | 0038 | 1300 | 0013 | 2A00 | 0023 | 2007 | 0043 | 400E | 0083 | 0042  |
| 1 1  | 1 1 1 1 |      |      |      |             |      |      |      |      |      | 1    |      |      |      |      | 1 1 1 |
| Rewrite repetition times 2   | 0003h   | 2400 | 0002 | 1200 | 9000        | 2300 | 2000 | 1100 | 0030 | 2500 | 0020 | 3001 | 0900 | 6002 | 0070 | 0022  |
| Initial Rewrite repetition Rewrite repetition Rewrite repetition times 2 | 40600   | 3000 | 00AO | 1E00 | 0000        | 3800 | 00F0 | 1000 | 6000 | 3A00 | V000 | 1003 | 0000 | 2006 | 000F | 00A3  |
| Rewrite repetition times 0   | 0001h   | 2200 | 0002 | 2A00 | 0004        | 5400 | 8000 | 2800 | 0010 | 2000 | 0020 | 2001 | 0040 | 4002 | 0800 | 0002  |
| Bit. Initial<br>string   | 0h      | 1    | 2    | 3    | 4           | 5    | 9    | 7    | 8    | 6    | A    | В    | 3    | D    | Ε    | L     |

FIG. 15



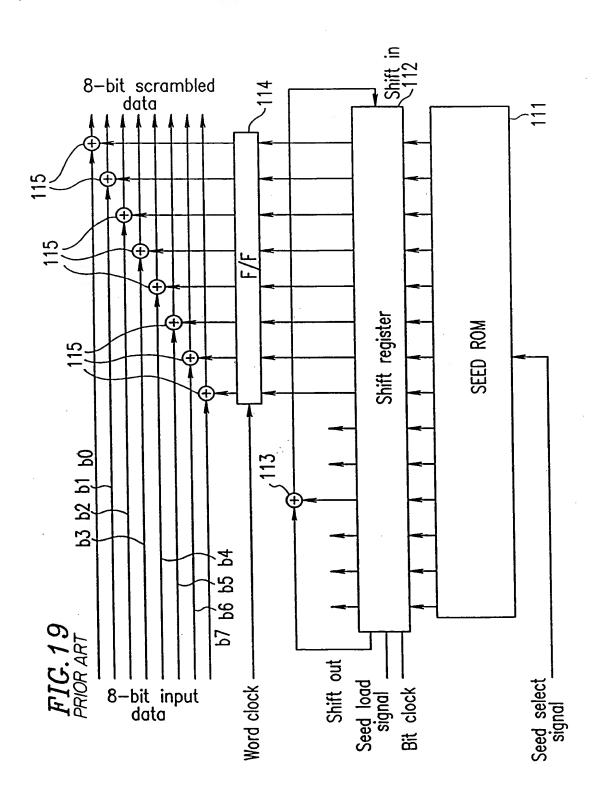


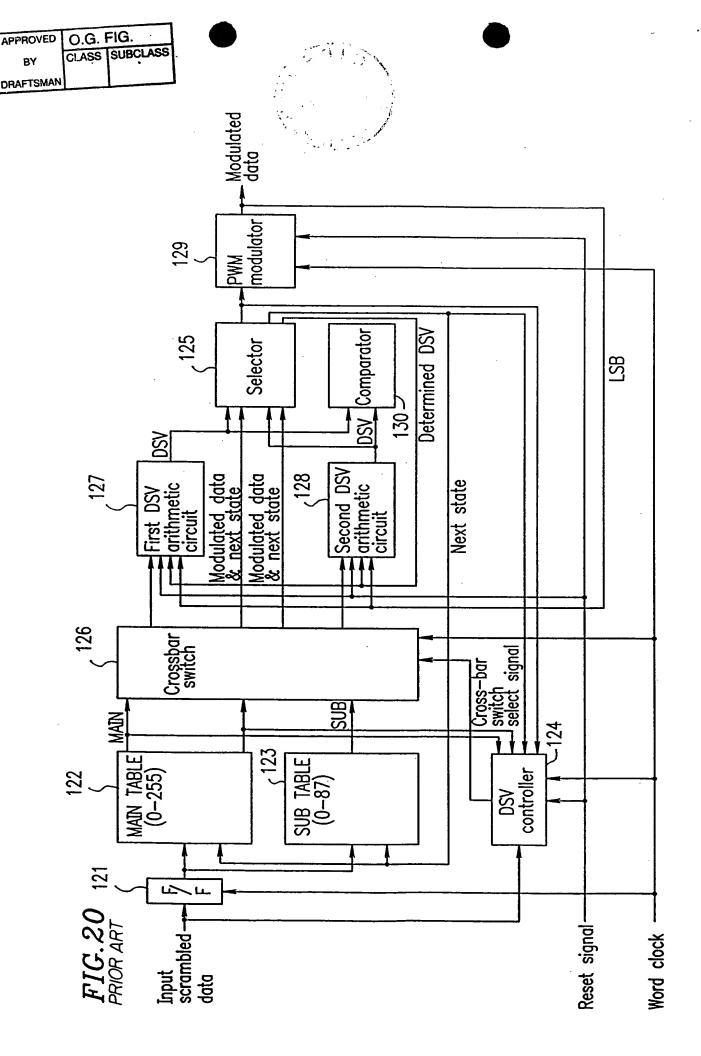
| APPROVED  |       |          |
|-----------|-------|----------|
| BY        | CLASS | SUBCLASS |
| DRAFTSMAN |       |          |



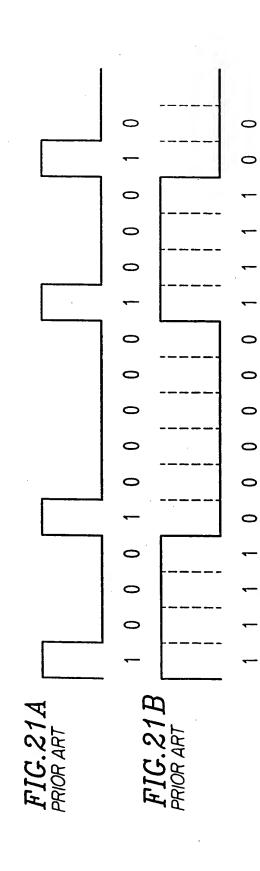
- Recording data 8/16 modulator Scrambler Input data— Bit4 to bit7 of logical address Sector start signal -FIG. 18 PRIOR ART

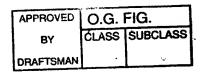
| APPROVED  | O.G.  |          |                   |
|-----------|-------|----------|-------------------|
| BY        | CLASS | SUBCLASS |                   |
| DRAFTSMAN |       |          | 1.36.34           |
|           |       |          | $\sim 45^{\circ}$ |
|           |       |          |                   |
|           |       |          |                   |
|           |       |          | Salaria di Lini   |





| APPROVED  | O.G. FIG. |          |
|-----------|-----------|----------|
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN | <u></u>   |          |





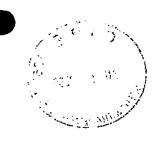
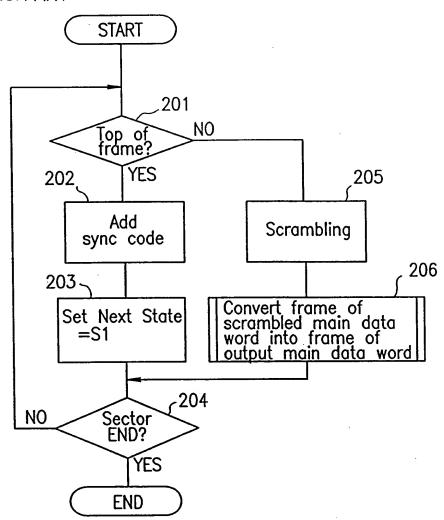


FIG.22 PRIOR ART



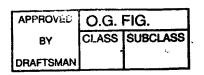
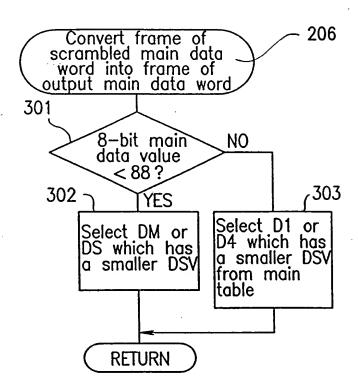
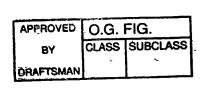
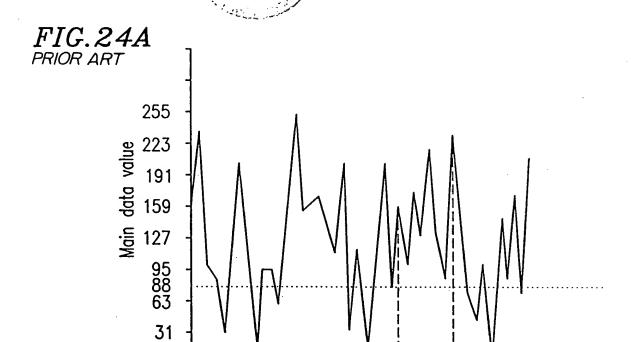




FIG.23 PRIOR ART

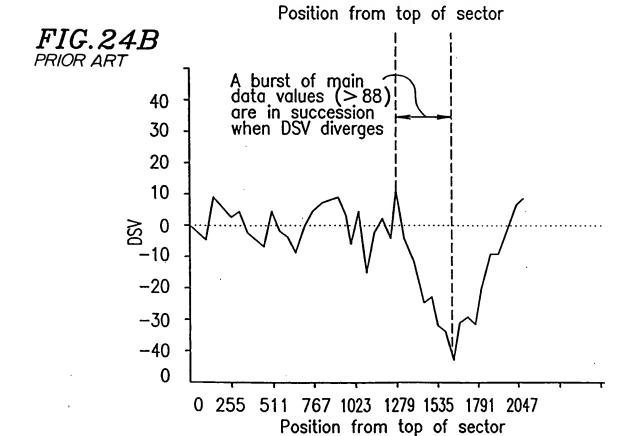






0

0 255



511 767 1023 1279 1535 1791 2047